

Attach #11

Pellet Paint Co-Precipitant

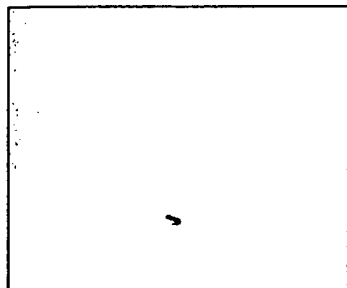
Product	Cat. #	Price
Pellet Paint Co-Precipitant	69049-1	\$45

Contains enough components for 125 precipitations:

- 250µl Pellet Paint Co-Precipitant
- 1ml 3M Na Acetate, pH 5.2

Additional Information Available

Protocol	TB146
<i>inNovations</i>	No. 4



* patent pending

Pellet Paint™ Co-Precipitant* is a visible dye-labeled carrier formulated specifically for use in alcohol precipitation of nucleic acids (1). The five minute protocol requires no low temperature incubations or prolonged centrifugation. Both RNA and DNA are efficiently precipitated from even the most dilute solutions (2ng/ml) and the pellet is easily located by its vivid pink color. The pellet can be easily followed during washing steps and prevents losses during handling. Pellet Paint does not interfere with many molecular biology procedures and is free of contaminating nucleic acids and nucleolytic enzymes. Not recommended for use with ABI automated sequencers.

1. McCormick, M. (1995) *inNovations* 4, 10-11.

Comparison of different carriers for precipitation of nucleic acids

	Pellet Paint	glycogen	tRNA
<i>compatible with:</i>			
gel electrophoresis	✓	✓	—
PCR amplification	✓	?	—
DNA sequencing	✓	✓	—
restriction digestion	✓	✓	✓
ligation	✓	✓	?
transformation	✓	?	—
cDNA synthesis	✓	?	—
kinase reactions	✓	✓	—
random priming	✓	?	—
<i>in vitro</i> transcription	✓	✓	?
<i>in vitro</i> translation	✓	✓	✓
RNase protection	✓	?	—
phenol extraction	✓	✓	✓
LiCl precipitation	✓	✓	—
bacterial electroporation	✓	?	?

Sample	incorp. cpm recovered
RNA (100nt, 0.2ng/µl)	90%
RNA (1000nt, 0.2ng/µl)	92%
RNA (10,000nt, 0.2ng/µl)	89%
DNA (100-2000bp, 4pg/µl)	86%

Recovery of various RNA and DNA samples with Pellet Paint as the carrier

The indicated samples of ³²P-labeled RNA and DNA were prepared using standard protocols for *in vitro* transcription and random priming, respectively. Following the labeling reactions, incorporation was determined by DE81 filtration. Known amounts of incorporated material (300,000 cpm) were precipitated in the presence of Pellet Paint. Samples without Pellet Paint resulted in a 5-50-fold reduction in recovery.

DETECTION/
PURIFICATION

1996-1997 Catalog

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